Index to Volume 21

Authors

A

Akindele, Femi 79
Andrés, A. 95

B

Bates, Edward R. 79
Beaver, Earl O17
Bertrand, Rene R. 163
Bolger, Paul T. 203
Brooks, R.R. 63
Burgess, Tom L. 137
Bussman, Wes 1

C

Che, Stanley C. 116
Chen, Luke 225
Chitwood, Derek E. 11
Ciccolella, Donald E. 121

D

Davis, Robert J. 111
Devinny, Joseph S. 11
Dufour, J. 105
Dzombak, David A. 47

E

Enneking, Joseph C. 169
Eow, John S. 143

F

Fanlo, J.L. 237
Fazaelipoor, Mohammad Hassan 221
Fernandez Olmo, I. 95
Field, Robert W. 265
Frisbie, Gordon 127
Furstein, Saul J. 137

G

Gibson, Andrew G. 137
Goh, Yoke R. 183
González, M.V. 105
Gracian, C. 237
Grosskopf, John W. 175

H

Hayes, Bob 1
He, Suhao 131
Herner, Brian 196
Hossain, Monwar 63

I

Iaquaniello, Gaetano 116
Irabien, Angel 95

J

Jarvis, Timothy Thomas 71
Je, Chung-Hwan 255

K

Karan, Jay 1
Kim, Kyung-Sub 255
Klara, Scott M. 247
Koch, Duane 20
Kochany, Jan 85
Koval, Paul J. 231

L

LaIglesia, A. 105
Larson, Steven L. 29
Le Cloirec, P. 237
Li, Dingkai 131
Li, Yan 131
Lin, Jin-Wei 225
Lipnizki, Frank 265
Lugowski, Andrew 85

M

Malhautier, L. 237
McAdams, Jason 1
McCutcheon, Steven C. 29
Medina, Victor F. 29
Meiburg, Eckart 11
Mutnan, Michael 175

N

Nakhla, George 37, 85
Newell, J. David 209
Niaz, Mohammed 37

O

Olivieri, Lino 116
Orlemann, James 231
Otchy, Thomas G. 121

P

Pizarro, Gonzalo E.L. 47
Poe, Roger 1
Polenek, Sophia 196

R

Reisman, Joel 127
Retoske, Matthew O17
Reynolds, G.K. 183

S

Sabti, H. 63
Sastry, Radhica 231
Sebastiá, M. 95
Shareefdeen, Zarook 196
Sharifi, V. Nasserzadeh 183
Shojaosadati, Seyed Abbas 221
Siegell, Jeffrey H. 163
Smith, John R. 47
Sprinkle, Don 79
Srivastava, Rameshwar D. 247
Stewart, R.B. 63
Swithenbank, Jim 183
Szlag, David C. 203

V

von Wandruszka, Ray 209

W

Wachs, Israel E. 137
Webb, Derek 196
Wilson, Steve 196

X

Xiang, Guangming 131
Xu, Xuchang 131

Y

Yang, Chen-Lu 225
Yang, Gordon C.C. 57
Yao, Qiang 131

Z

Zarnitz, Ryan 215
Zeiss, Robert F. 111

Titles

A

Absorption of NO_2 in a Packed Tower with Na_2SO_3 Aqueous Solution 225
Adsorbing Colloid Flotation for Removal of Metal Ions in Waters from Base Metal Mines 63
American Creosote Site Case Study: Solidification/Stabilization of Dioxins, PCP, and Creosote for $64 per Cubic Yard 79

B

Biofiltration of Air Loaded with Ammonia by Granulated Sludge 237

C

Calculating Realistic PM_{10} Emissions from Cooling Towers 127
Case History: Catalytic System Abates VOCs and NO_X 121
Climate Change: What Does It Mean to the Process Engineer? O17
CMP Wastewater Management Using the Concepts of Design for Environment 57
Commercial Test of a Slurry Jet FGD System 131
Computational Model for Heterogeneous Flow Through Low Headloss Biofilter Media, A 11
Control of Carbon Disulfide Emissions from Viscose Processes 169
Converting Waste Gases from Pulp Mills into Value-Added Chemicals 137
Cryogenic Condensation: A Cost-Effective Technology for Controlling VOC Emissions 111

D

Dow Chemical Pilot of Total "Business" Cost Assessment Methodology: A Tool to Translate EH&S "...Right Things To Do" into Economic Terms (Dollars) 20

E

Effect of Silicone Oil on Biofiltration of Hydrophobic Compounds, The 221
Electrochemical Treatment and Reuse of Nickel Plating Rinse Waters 203
Emission of Trace Compounds from Catalytic Cracking Regenerators 163
Evaluation of Cleaning and Coating Techniques for PCB-Contaminated Concrete 47
Evaluation of Continuous Flow-Through Phytoreactors for the Treatment of TNT-Contaminated Water 29

Evaluation of Mathematical Models for Analyzing Flocculent Settling Data 255
Evaluation of PCBs Biodegradability in Sludges by Various Microbial Cultures 85

H

Hydrophobic Pervaporation for Environmental Applications: Process Optimization and Integration....265

I

Implementing a Global Greenhouse Gas Emissions Trading Program....215
Investigation of a Novel Jet Deflector to Avoid Slag Accumulation Around Secondary Air Jets in Incinerators and Boilers....183

L

Low NO_x Burner Technology for Ethylene Cracking Furnaces 1

M

Mercury Contamination from Metal Scrap Processing Facilities: A Study by Ohio EPA....231

P

Pilot-Scale *in situ* Bioremediation of Gasoline-Contaminated Groundwater: Impact of Process Parameters 37
Prediction of TCLP Leachates of Electric Arc Furnace Dust/Cement Products Using Neural Network Analysis....95

R

Recovery of Sulfur from Sour Acid Gas: A Review of the Technology 143
Removal of Zinc and Trichloroethylene from Water by Column Extraction with a Crude Humic Acid 209
Removing Volatile Organic Compound (VOC) Emissions from a Printed Circuit Board Manufacturing Facility Using Pilot- and Commercial-Scale Biofilters 196

S

Selection of Refractory for Thermal Oxidizers on Gas Streams Containing Fluorine 116
Stewardship and U.S. Nuclear Weapon Production Wastes—An Introduction 71

U

U.S. DOE Integrated Collaborative Technology Development Program for CO_2 Separation and Capture 247
Use of Environmental Management Systems in Settlement of Enforcement Actions 175

Z

Zeolite Synthesis Employing Alkaline Waste Effluents from the Aluminum Industry 105

Subjects

A

Absorption 225
Adsorption 63
Air 1, 11, 111, 116, 121, 127, 131, 137, 143, 163, 169, 221, 225, 231, 237

B

Biofiltration....11, 196, 221, 237
Bioremediation....37
Boiler/Incinerator Safety 183

C

Carbon Emissions (CO_2, Carbon Disulfide) O17, 169, 247
Catalytic Cracking/Systems 121, 163
Cement Products....79, 95
Climate Change O17
Column Extraction 209
Computer Modeling....11, 95, 255
Cost Assessment....20
Cryogenic Condensation 111

D

Desulfurization 143
DOE Programs 71, 247

E

Electrochemical Treatment 203
Emissions ..O17, 111, 121, 127, 163, 169, 196, 215, 247
Emissions Trading 215
Energy Industries 1, 37, 71, 247
Enforcement 175
Environmental Management 20, 175, 215
Environmental Stewardship....71
EPA Programs....29, 79, 203

F

Flue Gas Desulfurization 131

G

Gas Adsorption....225
Greenhouse Gases O17, 215, 231
Groundwater 37

H

Hazardous Wastes 95, 183

J

Jet Reflectors.....183

M

Manufacturing.....196
Mathematical Modeling 255
Mercury Contamination 231
Metals Waste.....63, 105, 203, 231

N

Neural Network Analysis 95
NO_X/NO_2 .....O17, 1, 121, 225
Nuclear Waste.....71

P

Particulates 127
PCB Contamination 47, 85
Pervaporation 265
Phytoreactors 29
Process Optimization 265
Pulp and Paper.....137

R

Refractory Selection 116
Remediation 29, 37, 47, 79, 85, 196, 247

S

Scrap Metal Processing 231
Slag Build-up 183
Solidification/Stabilization of Wastes 79
Sulfur Recovery 143

V

Volatile Organic Compounds
(VOCs) 17, 111, 121, 196

W

Waste Gas Conversion 137, 143
Wastewater 57, 63, 105, 203, 209
.....255, 265
Water Treatment....29, 37, 57, 63105, 203, 209, 255, 265
Weapons Production Waste.....29, 71

Z

Zeolite Synthesis 105

Statement of Ownership, Management, and Circulation (required by 39 U.S.C. 3685) of October 4, 2002, for *Environmental Progress* Publication No. 689-390, issued quarterly for an annual subscription price of $295 from AIChE, 3 Park Avenue, New York, NY 10016-5991, which is the location of its publication and business offices. The name and address of the Publisher, Editor, and Managing Editor are: Publisher, Haeja L. Han, 3 Park Avenue, New York, N.Y. 10016-5991; Editor, Gary F. Bennett, 3 Park Avenue, New York, N.Y. 10016-5991; Managing Editor, Lois Anne DeLong, 3 Park Avenue, New York, N.Y. 10016-5991. The owner is: American Institute of Chemical Engineers, 3 Park Avenue, New York, N.Y. 10016-5991. The known bondholders, mortgagees, and other security holders owning or holding one percent or more of the total amount of bonds, mortgages, or other securities are: None. The purpose, function, and nonprofit status of this organization, and the exempt status for federal income tax purpose have not changed during the preceding 12 months. The following figures describe the nature and extent of *Environmental Progress*' circulation. In each category the first number (*in italics*) is the average number of copies of each issue during the preceding 12 months. The number next to it, within parentheses ( ), is the actual number of copies of the single issue published nearest to the filing date.

A. Total number of copies printed (net press run), *2,975* (2,900).
B. Paid and/or requested circulation
1. Paid/requested outside-county mail subscription stated on form 3541: *2,320* (2,184).
2. Paid in-county subscriptions stated on form 3.541 : None.
3. Sales through dealers and carriers, street vendors, counter sales, and other non-USPS paid distribution: None.
4. Other classes mailed through the USPS: None.
C. Total paid and/or requested circulation *2,320* (2,184).
D. Free distribution by mail
1. Outside-county as stated on form 3541: *13* (13).
2. In-county as stated on form 3541: None.
3. Other classes mailed through USPS: None.
E. Free distribution outside the mail: None.
F. Total free distribution: *13* (13).
G. Total distribution: *2,333* (2,197).
H. Copies not distributed: *642* (703).
I. Total [sum of 15g and h] *2,975* (2,900).
J. Percent paid and/or requested circulation: *99.44* (99.41).

I certify that the statements made by me are correct and complete.

Haeja L. Han, Publisher.